

# Electrical Safety Tester

## Multifunctional Electrical Safety Tester

### TES-9620 series

#### Product description:

TES-9620 series multifunctional electrical safety tester has multifunction combinations of AC withstand voltage, DC withstanding voltage, insulation resistance and ground bond resistance. The size of the whole machine is compact and light weight. It has high-precision 1% accurate, high-speed 0.5s quick operation, efficient, reliable and stable and has rich interfaces and touch-screen operation.



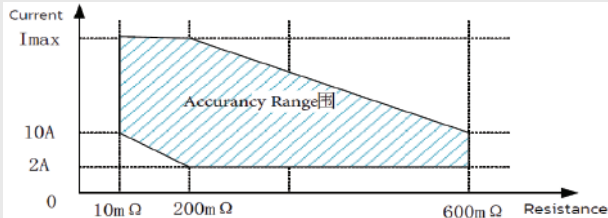
#### Features

- Withstand voltage output capacity upto 200VA, ground resistance output current 32A
- Insulation resistance range: 50GΩ
- Built-in fast rise + slow rise test function in accordance with IEC60601/GB9706.1 standard requirements
- Built-in 100 test groups, each group supports 50 steps
- Open and short circuit detection function: supports OSC AC output detection and DC charging lower limit detection
- Arc detection function: built-in arc detection function based on waveform recognition, internationally unique, good anti-interference effect, high accuracy
- User authority setting: built-in password function to distinguish different levels of users
- External interface: standard RS232 interface, optional LAN, USB, GPIB, RS485 and other interfaces
- Anti-electric shock protection function: built-in leakage protection function, response speed uS level
- Quick test: test step delay <50ms
- Information function: support barcode scanner, U disk storage and other peripherals

#### Specifications

Model	TES-9622	TES-9624
<b>AC Withstanding Voltage Test</b>		
Output Capacity	100VA	200VA
Voltage Output Upper Limit Umax	5000V	
Voltage Output Lower Limit Umin	100V	
Current Measurement Upper Limit Imax	20mA	40mA
AC Voltage Output Measurement	Range : 100 ~ 5000VAC, resolution : 1V, Error : ±(1% x set value +5V)	
Output Frequency	50Hz/60Hz, accuracy : ±0.1Hz	
Output Adjustment	±(1% x set value +5V), no load to full load	
Waveform Distortion	Sine wave, <2% (resistive load)	
AC Current Measurement	Range : 0.010 ~ 3.500, 3.00 ~ Imax, resolution : 0.001/0.01mA, Error : ±(1% x reading + 5words)	
Ramp-up & Ramp-down Time	Range : 0, (0.1 ~ 999.9)s, resolution : 0.1s	
Testing Time	Range: 0, (0.5 ~ 999.9)s, resolution 0.1s, Error : ±(2% x set value + 1 word)	
Arc Detection	1 ~ 9 (9 is the most sensitive), 0 means arc off function	
Current Compensation	0.000 ~ 10.00mA, total current + compensation current < Imax, automatic	
<b>DC withstanding voltage Test</b>		
Voltage Output Upper Limit Umax	6000V	
Voltage Output Lower Limit Umin	100V	
Current Measurement Upper Limit Imax	10mA	
DC Voltage Output Measurement	Range : 100 ~ 6000Vdc, resolution : 1V, Error : ±(2% x set value +5V)	
Output Ripple	<2% (6kV/1mA resistance load)	
Output Adjustment	±(1% x Set +2V), no load to full load	
DC Current Measurement	Range : 0.0 ~ 350.0/300 ~ 3500μA/3.00 ~ 10mA, resolution : 0.1/μA/0.01mA, Error : ±(1% x reading +5words)	
Ramp-up Time	Range : 0, (0.4 ~ 999.9)s, 0 means off	
Testing Time	Range: 0, (0.5 ~ 999.9)s, 0 is infinite, resolution 0.1s, Error : ±(1% x set value + 1 word)	
Ramp-down Time	Range: 0, (10 ~ 999.9)s, 0 means off	
Arc Detection	1 ~ 9 (9 is the most sensitive), 0 means arc off function	
Current Compensation	(0 ~ 200) μA, Automatic	
Discharge Time	≤200ms	
Maximum Capacitive Load	1μF <1kV, 0.75μF < 2kV, 0.5μF < 3kV, 0.08μF < 4kV, 0.04μF < 5kV	

Q Specifications

Model	TES-9622	TES-9624
<b>Insulation Resistance Test</b>		
Voltage Output Upper Limit Umax	6000V	
Voltage Output Lower Limit Umin	100V	
Resistance Meas. Upper Limit Rmax	50GΩ	
DC Voltage Output Measurement	Range : 100 ~ 6000Vdc, resolution : 1V, Error : ±(1% x set +5V)	
Resistance Upper-Lower Limit Setting	Range : 0.1MΩ ~ 50000MΩ, upper limit includes no upper limit setting	
Insulation Resistance Measurement	Range : 0.100MΩ ~ RmaxGΩ, Resolution : 0.001MΩ/ 0.01MΩ/ 0.1MΩ/ 0.001GΩ/ 0.01GΩ	
	Error : 100V ~ 499V : 0.100MΩ ~ 2.000GΩ, ±(5% x reading +2 words)	
	500V ~ 6000V : 0.100MΩ ~ 999.9MΩ, ±(2% x reading +2 words)	
	: 1.000GΩ ~ 9.999GΩ, ±(5% x reading +2 words)	
	: 10.00GΩ ~ 50GΩ, ±(15% x reading +2 words)	
Ramp-up Time	Range : 0, (0.4 ~ 999.9)s, 0 means off	
Testing Time	Range : 0, (0.5 ~ 999.9)s, 0 is infinite, resolution 0.1s, Error : ±(1% x set + 1 word)	
Ramp-down Time	Range : 0, (1.0 ~ 999.9)s, 0 means off	
<b>Ground Bond Resistance Test</b>		
Current Output Upper Limit Imax	32A	
Resistance Meas. Upper Limit Rmax	600mΩ, Open circuit voltage is less than 12V	
Current Fluctuation	<0.4% x set / minute	
Output Voltage	Range : (3.0 ~ 10.0) VAC, resolution : 0.1V, Error : ±(1% x reading + 2 words), Open circuit	
Output Frequency	50Hz/60Hz, accuracy : ±0.1Hz	
Resistance Measurement		
	Range : 1.0 ~ 99.9mΩ, 100 ~ 600mΩ, resolution : 0.1/1mΩ	
	Measurement error : <100mΩ, ±(1% x reading +1mΩ) ≥ 100mΩ, ±(1% x reading +2 words)	
Resistance Compensation	0 ~ 200mΩ	
Testing Time	Range : 0, (0.5 ~ 999.9)s, 0 is infinite, resolution : 0.1s, Error : ±(1% x set + 1 word)	
<b>General System Specification</b>		
Interface	Standard : RS232, Optional : RS-485, USB, GPIB, LAN and Analog output	
Installation Location	Indoor, altitude not higher than 2000meters	
Usage Environment	Temperature	0 ~ 40°C
	Humidity	40°C, (20% ~ 90%RH)
Storage Environment	Temperature	-10°C ~ 50°C
	Humidity	50°C, 90%RH, 24h
Input Power	AC 220V ±10%, 50Hz±5%, 10A	
Power Consumption	Full Load	Less than 50W
	No Load	Less than 400W
Dimension	215(W) x 132(H) x 470(D)	
Weight	About 25kg	

Ordering Information

**TES-9622** : 4 in one Electrical Safety tester ACW : 100VA/5kVA/20mA,  
DCW : 6kV/10mA, IR : 6kV/50GΩ, GB : 32A/600mΩ

**TES-9624** : 4 in one Electrical Safety tester ACW : 200VA/5kVA/40mA,  
DCW : 6kV/10mA, IR : 6kV/50GΩ, GB : 32A/600mΩ

Standard Accessories :

- User Manual
- Power cord
- Test leads

Safety Tester

AC Power Supply

DC Power Supply

Power Analyzer

Electronic Load

Resistance Tester

LCR Meter

Temperature Tester

Environmental Tester